BA/BE ELECTRONIC SUBMISSION DOCUMENT ESD TEMPLATE

IMPORANT NOTES:

Do not leave any field blank; use N/A to indicate that a field was intentionally not entered. When a list of options such as {original, amendment, supplement} is provided, you MUST enter one of the given options. If the list is followed by "...", acceptable entries are not limited to those in the list.

To repeat a block, copy everything from the |BEGIN ...| statement to the corresponding |END ...| statement. If there is no data for a section, such as URINE INFO, please delete the entire block from |BEGIN ...| to |END ...|.

Include comments using /* and */ as delimiters: e.g., /* This is a comment */

|BEGIN SUBMISSION INFO|

::ANDA NO.::

FDA-assigned number that uniquely identifies this application integer, up to 6 digits

::SUBMISSION TYPE::

type of current submission {original, amendment, supplement}

::SUBMISSION NO.::

applicant-assigned number that identifies this submission within the application, use 1 for first submission of year, 2 for second... alphanumeric

::GENERIC DRUG PRODUCT NAME::

the official name of the drug product, exactly as it appears in the USP (if applicable) text

::APPLICANT::

unique three letter identifier of company sponsoring this submission (requires EVA registration)

text

::US AGENT::

name of agent representing applicant in US (N/A if US applicant) text

::SUBMISSION DATE::

date of this submission mm/dd/yyyy

::NO. OF WAIVERS::

total number of waivers requested, one for each strength and study type (bioequivalence or dissolution) integer

|BEGIN WAIVER INFO| (REPEAT FOR EACH WAIVER REQUESTED)

::STUDY TYPE::

type of study involved in request {bioequivalence, dissolution}

::DRUG STRENGTH::

strength of drug for which waiver is requested, including units alphanumeric

::LETTER DATE::

date of official waiver request mm/dd/yyyy

|END WAIVER INFO|

::NO. OF SUBMITTED DOCUMENTS::

total number of computer files included in this submission integer

|BEGIN SUBMITTED DOCUMENT INFO| (REPEAT FOR EACH DOCUMENT)

::FILE TYPE::

type of document of the four possible types of submission documents {main, data, report, sas}

::DESCRIPTION::

brief explanation of document contents text

::FILE NAME::

name of computer file valid DOS filename that follows naming conventions of this submission format

::FORMAT::

file format or source of file

|END SUBMITTED DOCUMENT INFO|

::NO. OF PRODUCTS::

total number of drug products (test + reference) involved in this submission integer

|BEGIN PRODUCT INFO| (REPEAT FOR EACH PRODUCT)

::PRODUCT ID::

a unique identifier for this product to be used throughout application alphanumeric

::TEST OR REFERENCE::

indication of whether this product is used as a test or a reference {test, reference}

::PRODUCT NAME::

brand or generic name of this product text

::MANUFACTURER NAME::

name of company that manufactured this product text

::MANUFACTURE DATE::

date of manufacture of this product mm/dd/yyyy

::EXPIRATION DATE::

date of expiration of this product mm/dd/yyyy

::DOSAGE FORM::

form of drug product

{aerosol, capsule, cream, emulsion, enema, gas, gel, granule, inhalant, injection, liquid, lotion, ointment, paste, patch, powder, solution, spray, suppository, suspension, syrup, tablet, . . .}

::ROUTE OF ADMINISTRATION::

route by which drug product is administered

{buccal, caudal block, dental, epidural, inhalation, intradermal, intramuscular, intravenous, irrigation, nasal, nerve block, ophthalmic, otic, oral, percutaneous, rectal, subcutaneous, sublingual, topical, transdermal, vaginal, . . .}

::STRENGTH UNITS:: mg

units used throughout this submission for dose or strength values text

::STRENGTH::

strength of the dosage unit (in units given above) numeric

::DELIVERY RATE UNITS::

units used throughout submission for delivery rate (N/A if not transdermal) text

::DELIVERY RATE::

delivery rate of product in appropriate units (N/A if not transdermal) numeric

::BATCH/LOT NO.::

identifier for this batch or lot alphanumeric

::THEORETICAL YIELD::

planned batch or lot size numeric

::ACTUAL YIELD::

obtained batch or lot size numeric

::NO. OF INGREDIENTS IN FORMULATION::

number of ingredients (both active and inactive) in the formulation of this product integer

|BEGIN INGREDIENT INFO| (REPEAT FOR EACH INGREDIENT)

::INGREDIENT::

name of ingredient, exactly as it appears in the USP (if applicable) text

::ACTIVE::

indication of whether ingredient is active or inactive {yes, no}

::QUANTITY::

amount of ingredient in a unit dose (in appropriate units)

numeric

::POTENCY::

active % of ingredient in each unit dosage form numeric

::CONTENT UNIFORMITY, WITH CV%::

% of ingredient measured in samples and coefficient of variation separated by comma text

|END INGREDIENT INFO|

|END PRODUCT INFO|

::NO. OF DISSOLUTION STUDIES::

total number of dissolution studies; each strength, unit (broken or whole tablet), ingredient, or study condition warrants a different study integer

|BEGIN DISSOLUTION INFO| (REPEAT FOR EACH DISSOLUTION STUDY)

::DISSOLUTION STUDY NO.::

integer which uniquely identifies this dissolution study within the submission $\{1,2,\ldots\}$

::DISSOLUTION DATA FILE NAME::

reference to data file where raw individual dissolution data is located valid DOS filename that follows naming conventions of this submission format

::STRENGTH AND UNIT OF PRODUCT(S) TESTED::

strength and dosage form tested text

::ACTIVE INGREDIENT::

name of ingredient tested

text

::DISSOLUTION METHOD::

description of dissolution method used text

::DISSOLUTION MEDIUM::

description of medium in which dissolution was performed

::VOLUME::

volume of medium in which dissolution was performed, including units text

::DISSOLUTION APPARATUS::

apparatus used for dissolution tesing text

::RPM::

revolutions per minute integer

::ASSAY METHOD::

method used (HPLC or spectrophotometry with wavelength) text

::DISSOLUTION SPECIFICATION::

Q Value: minimum % dissolved at specific time text

::NO. OF UNITS OF EACH PRODUCT::

number of units tested integer

::TIME UNITS::

units in which dissolution sampling times are reported text

::NO. OF DISSOLUTION SAMPLING TIME POINTS::

number of time points for which dissolution data is reported integer

::DISSOLUTION SAMPLING TIMES::

slash-delimited list of dissolution sampling times (in appropriate units, in ascending order) numeric (list)

|END DISSOLUTION INFO|

::NO. OF ANALYTES::

total number of compounds (parents + metabolites) analyzed integer

|BEGIN ASSAY VALIDATION INFO - FROM PRE-STUDY VALIDATION PACKAGE| (REPEAT FOR EACH ANALYTE)

::ANALYTE::

name of compound analyzed text

::STABILITY TABLE DATA FILE NAME::

reference to data file for raw assay validation stability table data valid DOS filename that follows naming conventions of this submission format

::RECOVERY DATA FILE NAME::

reference to data file for raw assay validation recovery data valid DOS filename that follows naming conventions of this submission format

::QUALITY CONTROL DATA FILE NAME::

reference to data file for raw assay validation QC samples data valid DOS filename that follows naming conventions of this submission format

::STANDARD CURVE DATA FILE NAME::

reference to data file for raw assay validation standard curve data valid DOS filename that follows naming conventions of this submission format

::CONCENTRATION UNITS::

units used for concentrations in data files and fields throughout this section text

::PEAK HEIGHT UNITS::

units used for peak heights in recovery data file text

::NO. OF NOMINAL CONCENTRATIONS FOR STANDARD CURVE::

number of nominal concentrations in standard curve data file integer

::NOMINAL CONCENTRATIONS FOR STANDARD CURVE::

slash-delimited list of nominal concentrations in standard curve data file numeric (list)

::ASSAY METHOD::

method used to quantify parent or metabolite concentrations {HPLC, RIA, . . . }

::MATRIX::

matrix in which parent and/or metabolite concentrations were measured

{blood, plasma, serum}

::INTERNAL STANDARD::

name of internal standard used for assay validation text

::STANDARD CURVE S.O.P. NO.::

number identifying standard operating procedure if one was used text

::SENSITIVITY::

lowest quantifiable concentration, in appropriate units text

::HIGHEST CONCENTRATION OF STANDARD CURVE::

highest concentration of the standard curve, in appropriate units text

::LOWEST CONCENTRATION OF STANDARD CURVE::

lowest concentration of the standard curve, in appropriate units text

::R**2 IS GREATER THAN::

largest coefficient of determination for the standard curve numeric

::SPECIFICITY::

indication of whether or not the assay is selective for drug and/or metabolite(s) {yes, no}

::ANALYTE RETENTION TIME::

range of retention times for analyte, including units text

::INTERNAL STANDARD RETENTION TIME::

range of retention times for internal standard, including units text

|END ASSAY VALIDATION INFO - FROM PRE-STUDY VALIDATION PACKAGE|

::NO. OF STUDIES::

total number of bioequivalence studies included in this submission integer

|BEGIN STUDY INFO| (REPEAT FOR EACH STUDY)

::STUDY NO.::

integer which uniquely identifies this biostudy within the submission $\{1,2,\ldots\}$

::PROTOCOL NO.::

unique identifier for this study within the submission alphanumeric

::STUDY TITLE::

title of this study text

|BEGIN STUDY FACILITY INFO|

::CLINICAL FACILITY::

name of facility where clinical component of study took place text

::MEDICAL DIRECTOR::

full name of medical director or clinical investigator text

::SCIENTIFIC DIRECTOR::

full name of scientific director or study coordinator text

::CLINICAL STUDY START DATE::

date on which clinical component of biostudy began mm/dd/yyyy

::CLINICAL STUDY END DATE::

date on which clinical component of biostudy ended mm/dd/yyyy

::ANALYTICAL FACILITY::

name of facility where analytical component of study took place text

::PRINCIPAL INVESTIGATOR::

full name of principal investigator for bioanalytical study text

::ANALYTICAL STUDY START DATE::

date on which analytical component of biostudy began mm/dd/yyyy

::ANALYTICAL STUDY END DATE::

date on which analytical component of biostudy ended mm/dd/yyyy

|END STUDY FACILITY INFO|

|BEGIN STUDY DESIGN INFO|

::RANDOMIZED::

indication of whether this study was randomized or not {yes, no}

::NO. OF TREATMENTS::

number of treatments evaluated in this study integer

|BEGIN TREATMENT INFO| (REPEAT FOR EACH TREATMENT)

::TREATMENT ID::

unique identifier for this treatment alphanumeric, up to 10 characters

::PRODUCT ID::

ID of product administered alphanumeric, up to 10 characters

::DOSE ADMINISTERED::

dose of product administered, in appropriate units numeric

::STUDY CONDITION::

condition under which study was conducted {fasting, fed}

::LENGTH OF FASTING::

amount of time subjects fasted, including units text

::FOOD-DRUG INTERVAL::

time between meal and drug administration, including units (N/A if fasting study)

::STANDARDIZED BREAKFAST::

indication of whether or not standard breakfast was given (N/A if fasting study)

{yes, no}

::BREAKFAST SPECIFICS::

brief description of food items and amounts eaten (N/A if fasting study)

text

::STANDARDIZED LUNCH::

indication of whether or not standard lunch was given (N/A if fasting study) $\,$

{yes, no}

::LUNCH SPECIFICS::

brief description of food items and amounts eaten (N/A if fasting study)

text

::STANDARDIZED DINNER::

indication of whether or not standard dinner was given (N/A if fasting study)

{yes, no}

::DINNER SPECIFICS::

brief description of food items and amounts eaten (N/A if fasting study)

text

|END TREATMENT INFO|

::NO. OF PERIODS::

number of periods in the study integer

::NO. OF SEQUENCES::

number of sequences in the study (N/A if not randomized) integer

|BEGIN SEQUENCE DEFINITION INFO| (REPEAT FOR EACH SEQUENCE)

::SEQUENCE ID::

unique identifier for this sequence alphanumeric, up to 10 characters

::SEQUENCE::

slash-delimited list of treatment ID's in the order administered alphanumeric (list)

|END SEQUENCE DEFINITION INFO|

::ADDITIONAL CLASS VARIABLES::

indication of whether or not additional class variables are analyzed {yes, no}

::DESIGN TYPE::

type of design used in this study {parallel, crossover, . . .}

::REPLICATED TREATMENT DESIGN::

indication of whether this design used repeated treatments {yes, no}

::BALANCED::

indication of whether or not this design was balanced {yes, no}

::WASHOUT PERIOD::

length of washout period along with units of time text

::SINGLE OR MULTIPLE DOSE::

indication of whether this study is a single- or multiple-dose study {single, multiple}

::STEADY STATE::

indication of whether or not this is a steady-state study {yes, no}

::VOLUME OF LIQUID INTAKE WITH DOSE::

quantity of liquid taken with each treatment, including units text

::TIME UNITS:: hr

units in which times are reported in this section text

::DOSING INTERVAL::

time between doses, in appropriate units (N/A if single dose study) numeric

::NO. OF DOSES::

number of doses administered in multiple-dose study (N/A if single-dose study) integer $% \left(N/A\right) =\left(N/A\right) +\left(N/$

::LOADING DOSE::

strength of loading dose if one is administered, in appropriate units (N/A if single-dose study) numeric

::STEADY STATE DOSE TIME::

dosing time of the analyzed steady state dose, relative to the time reported for the first sample, in appropriate units (N/A for single-dose study) numeric

::LENGTH OF INFUSION::

length of time infusion was administered, in appropriate units numeric

::IRB APPROVAL::

indication of whether or not study was approved by Institutional Review Board {yes, no}

::INFORMED CONSENT OBTAINED::

indication of whether or not informed consent was obtained from subjects {yes, no}

::NO. OF SUBJECTS ENROLLED::

total number of subjects initially enrolled in study integer

::NO. OF SUBJECTS COMPLETING::

total number of subjects completing study integer

::NO. OF SUBJECTS PLASMA SAMPLES ANALYZED::

number of subjects for which plasma/serum/blood samples were included in analytical results integer

::NO. OF SUBJECTS URINE SAMPLES ANALYZED::

number of subjects for which urine samples were included in analytical results integer

::NO. OF DROPOUTS::

number of subjects that withdrew from study integer

|BEGIN DROPOUT INFO| (REPEAT FOR EACH DROPOUT)

::SUBJECT NO.::

identification of subject by number integer

::PERIOD::

period or phase of study during which subject withdrew integer

::REASON::

brief explanation of reasons for subject dropping out of study text

::REPLACEMENT::

indication of whether or not another subject replaced this dropout {yes, no}

::REPLACEMENT SUBJECT NO.::

subject number for subject that replaced this dropout (N/A if no replacement) integer $\frac{1}{N}$

|END DROPOUT INFO|

::DIETARY RESTRICTIONS::

brief explanation of restrictions on the diets of subjects during this study text

::ACTIVITY RESTRICTIONS::

brief explanation of restrictions on the activities of subjects during this study text

::DRUG RESTRICTIONS::

brief explanation of restrictions on other drugs taken by subjects during this study

text

::SEX(ES) INCLUDED::

indication of which sexes were included in this study {male, female, both}

::HEALTHY VOLUNTEERS ONLY::

indication of whether or not subjects were required to be healthy volunteers {yes, no}

::EXPLAIN IF PATIENTS ARE ENROLLED::

brief description of subjects if patients rather than healthy volunteers (N/A if healthy volunteers only) text

|END STUDY DESIGN INFO|

::NO. OF ADVERSE REACTION EVENTS::

total number of adverse reactions observed in this study integer

|BEGIN ADVERSE REACTIONS INFO| (REPEAT FOR EACH EVENT)

::EVENT NO.::

number which uniquely identifies this event $\{1,2,\ldots\}$

::SUBJECT NO.::

identification of subject by number integer

::SUBJECT INITIALS::

initials of this subject's name text

::TREATMENT ID::

ID of treatment the subject had most recently taken when the adverse reaction occured text

::PERIOD::

period or phase of study during which adverse reaction occurred integer

::TOTAL DOSE::

total cumulative dose subject had received at the time of the adverse reaction, including units (N/A if single dose study) numeric

::ADVERSE REACTION::

brief description of reaction text

::DATE OF REACTION::

date on which reaction occurred mm/dd/yyyy

::TIME AFTER DOSE::

duration of time between dosage administration and onset of adverse reaction, including units text

::SEVERITY::

description of severity of reaction {mild, moderate, severe}

::ASSOCIATION WITH DRUG::

degree of certainty with which adverse reaction can be claimed to be associated with drug treatment {definite, probable, possible, remote, unrelated}

::RESOLUTION::

indication of how adverse reaction was resolved {spontaneously, with treatment, did not resolve}

::TIME OF RESOLUTION::

duration of time between dosage administration and resolution of adverse reaction, including units text

::ACTION TAKEN::

description of any action(s) taken to resolve adverse reaction text

|END ADVERSE REACTIONS INFO|

::NO. OF PHARMACODYNAMIC (PD) EFFECTS MEASURED::

number of protocol-required pharmacodynamic effects (such as blood pressure or heart rate) measured in this study integer

|BEGIN PHARMACODYNAMIC INFO| (REPEAT FOR EACH PD EFFECT)

::PD DATA FILE NAME::

reference to data file where raw pharmacodynamic data is located valid DOS filename that follows naming conventions of this submission format

::NAME OF PD EFFECT MEASURED::

name of the pharmacodynamic effect measured text

::PD EFFECT UNITS::

units in which pharmacodynamic effect data are reported text

::TIME UNITS::

units in which time points for effect data are reported text

::NO. OF PD EFFECT TIME POINTS::

number of time points at which effect was measured integer

::PD EFFECT TIME POINTS::

slash-delimited list of sampling time points (in appropriate units, in ascending order) numeric (list)

|END PHARMACODYNAMIC INFO|

|BEGIN DEMOGRAPHIC INFO|

::DEMOGRAPHIC DATA FILE NAME::

reference to data file where raw demographic data is located valid DOS filename that follows naming conventions of this submission format

::HEIGHT UNITS::

units in which subject heights are reported

{cm, m, in, ft}

::WEIGHT UNITS::

units in which subject weights are reported {g, kg, lbm}

::SERUM CREATININE UNITS:: mg/dL units in which serum creatinine values are reported text

::CREATININE CLEARANCE UNITS:: ml/min units in which creatinine clearance values are reported text

|END DEMOGRAPHIC INFO|

::NO. OF CALCULATED PARAMETERS::

number of parameters (metrics) for which calculation methods are reported for this study integer

|BEGIN PARAMETER CALCULATION INFO|

::PARAMETER::

The parameter or metric being reported {auc, kel, thalf, serum creatinine, creatinine clearance, . . .}

::PROGRAM USED::

computer program used to calculate parameter/metric text

::CALCULATION METHOD::

method, formula, or equation used to calculate parameter/metric text

|END PARAMETER CALCULATION INFO|

::NO. OF ACTIVE INGREDIENTS::

number of product ingredients that are active integer

|BEGIN ACTIVE INGREDIENT INFO| (REPEAT FOR EACH ACTIVE INGREDIENT)

::ACTIVE INGREDIENT NAME::

name of active ingredient text

::NO. OF ACTIVE METABOLITES::

number of active metabolites of this ingredient measured in this study integer

|BEGIN COMPOUND MEASURED INFO| (REPEAT FOR EACH PARENT COMPOUND AND/OR ACTIVE METABOLITE)

::PARENT COMPOUND OR METABOLITE NAME::

name of active parent compound (same as ingredient name) or metabolite

text

|BEGIN ASSAY OF CURRENT STUDY SAMPLE INFO|

::QUALITY CONTROL DATA FILE NAME::

reference to data file for raw within-study Bioanalytical Validation QC samples data valid DOS filename that follows naming conventions of this submission format

::STANDARD CURVE DATA FILE NAME::

reference to data file for raw within-study Bioanalytical Validation standard curve data valid DOS filename that follows naming conventions of this submission format

::CONCENTRATION UNITS::

units used for concentrations in within-study standard curve data file and fields throughout this section text

::NO. OF NOMINAL CONCENTRATIONS FOR STANDARD CURVE::

number of nominal concentrations in within-study standard curve data file integer

::NOMINAL CONCENTRATIONS FOR STANDARD CURVE::

slash-delimited list of nominal concentrations in withinstudy standard curve data file numeric (list)

|END ASSAY OF CURRENT STUDY SAMPLE INFO|

::PLASMA DATA INCLUDED::

indication of whether or not blood/plasma/serum concentrationtime data are included {yes, no}

|BEGIN PLASMA INFO|

::PLASMA CONCENTRATION-TIME DATA FILE NAME::

reference to data file where plasma/blood/serum concentration-time data are located valid DOS filename that follows naming conventions of this submission format

::PLASMA PK PARAMETERS DATA FILE NAME::

reference to data file where plasma/blood/serum PK parameters data are located valid DOS filename that follows naming conventions of this submission format

::KEL ESTIMATION POINTS DATA FILE NAME::

reference to data file where Kel(lambda) estimation points data are located valid DOS filename that follows naming conventions of this

::PLASMA CONCENTRATION UNITS::

units in which plasma/blood/serum concentrations are reported in data file text

::TIME UNITS::

submission format

units in which sampling time points are reported text

::NO. OF PLASMA SAMPLING TIME POINTS::

number of time points at which plasma/blood/serum concentration was measured integer

::PLASMA SAMPLING TIME POINTS::

slash-delimited list of sampling time points (in appropriate units, in ascending order) numeric (list)

|END PLASMA INFO|

::URINE DATA INCLUDED::

indication of whether or not urine excretion-time data are included {yes, no}

|BEGIN URINE INFO|

::URINE EXCRETION DATA FILE NAME::

reference to data file where urine excretion-time data are located

valid DOS filename that follows naming conventions of this submission format

::URINE PK PARAMETERS DATA FILE NAME::

reference to data file where urinary excretion PK parameters (metrics) are located

valid DOS filename that follows naming conventions of this submission format

::URINARY EXCRETION UNITS::

units in which cumulative amount excreted in urine is reported in data file text

::TIME UNITS::

units in which sampling time points are reported text

::NO. OF URINE COLLECTION INTERVALS::

number of intervals during which urinary excretion data were collected integer

::URINE COLLECTION TIMES::

slash-delimited list of endpoint of each collection interval (in appropriate units, in ascending order) numeric (list)

|END URINE INFO|

|BEGIN STATISTICS INFO| (REPEAT FOR EACH PARAMETER AND TEST-REFERENCE PAIR)

::PARAMETER::

name of parameter or metric from list provided (L denotes log-transformed values) {auct, auci, cmax, tmax, kel(lambda), thalf, lauct, lauci, lcmax, . . . }

::TYPE OF MEAN::

mean used for this analysis {arithmetic, geometric, least squares arithmetic, least squares geometric}

::TEST TREATMENT ID::

treatment ID for test treatment alphanumeric

::TEST LSMEAN::

mean for test treatment numeric

::TEST CV%::

SD/MEAN * 100 for test treatment (N/A for log parameter) numeric

::REFERENCE TREATMENT ID::

treatment ID for reference product alphanumeric

::REFERENCE LSMEAN::

mean for reference treatment numeric

::REFERENCE CV%::

SD/MEAN * 100 for reference treatment (N/A for log parameter) numeric

::TEST/REFERENCE RATIO OF LSMEANS::

mean ratio, calculation depends on type of mean (N/A for non-log parameter) numeric

::LOWER 90% CONFIDENCE INTERVAL::

lower bound of two one-sided t-test confidence interval at 90% level (refer to OGD's 7/92 Statistics Guidance, N/A for non-log parameter) numeric

::UPPER 90% CONFIDENCE INTERVAL::

upper bound of two one-sided t-test confidence interval at 90% level (refer to OGD's 7/92 Statistics Guidance, N/A for non-log parameter) numeric

|END STATISTICS INFO|

|END COMPOUND MEASURED INFO|

|END ACTIVE INGREDIENT INFO|

|END STUDY INFO|

|END SUBMISSION INFO|